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1	IS&R	L1	9	(("6528424") or ("6660633") or ("6515368") or ("6717236") or ("6630741")).PN.	USP AT; US- PGP UB; EPO; JPO; DER WEN	2004/03 /26 17:27			0
2	IS&R	L2	13	(("6528424") or ("6660633") or ("6515368") or ("6717236") or ("6630741") or ("6197181") or ("6022808")).PN.	USP AT; US- PGP UB; EPO; JPO; DER WEN	2004/03 /26 17:37			0

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Day: Friday Date: 3/26/2004 Time: 14:32:30

Application Number Information

Application Number: 10/081074

Assignments

Filing Date: 02/21/2002

Effective Date: 02/21/2002

Application Received: 02/25/2002

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: P1406

Status: 71 /RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER

Confirmation Number: 2324

Examiner Number: 65878 / FOURSON III, GEORGE

Group Art Unit: 2823

Class/Subclass: 438/687.000

Lost Case: NO

Interference Number: Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

IFW IMAGE

Status Date: 02/04/2004

Oral Hearing: NO Title of Invention: CHEMICAL SOLUTION FOR ELECTROPLATING A COPPER-ZINC

ALLOY THIN FILM

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Day: Friday Date: 3/26/2004 Time: 16:30:00

Application Number Information

Application Number: 10/082432 Order This

File Assignments

Filing Date: 02/22/2002

Effective Date: 02/22/2002

Application Received: 02/26/2002

Patent Number: <u>6528424</u>

Issue Date: 03/04/2003

Date of Abandonment: 00/00/0000

Attorney Docket Number: P1407

Status: 150 /PATENTED CASE

PALM

Examiner Number: 79224 / ISAAC, STANETTA

Group Art Unit: 2812

Class/Subclass: 438/687.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Charge to

Secrecy Order: NO

Employee Name

Status Date: 02/13/2003

Location

Oral Hearing: NO Confirmation Number: 6393

Location

Title of Invention: METHOD OF ELECTROPLATING A COPPER-ZINC ALLOY THIN FILM

Charge to

ON A COPPER SURFACE USING A CHEMICAL SOLUTION

Bar Code	Location	Date	Loc	Name						
10082432	9200	06/09/2003	No Charge to Location	No Charge to Name	WASEEM,M	IOHAMMED				
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Day: Friday Date: 3/26/2004 Time: 16:30:30

Application Number Information

Application Number: 10/083809 Order This

File Assignments

Filing Date: 02/26/2002

Effective Date: 02/26/2002

Application Received: 02/28/2002

Patent Number: <u>6660633</u>

Issue Date: 12/09/2003

Date of Abandonment: 00/00/0000

Status: 150 /PATENTED CASE

Attorney Docket Number: P1409

Confirmation Number: 6544

Examiner Number: 72020 / GURLEY, LYNNE

Group Art Unit: 2812

Class/Subclass: 438/687.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 11/20/2003

Oral Hearing: NO

Title of Invention: METHOD OF REDUCING ELECTOMIGRATION IN A COPPER LINE BY ELECTROPLATING AN INTERIM COPPER-ZINC ALLOY THIN FILM ON A COPPER

SURFACE AND A SEMICONDUCTOR DEVICE THEREBY FORMED

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name		Location
10083809	9200	01/26/2004	No Charge to Location	No Charge to Name	MASSILLON	,NICHOLAS	
Appin Co	ontents F	Petition Info	Atty/Agent In	fo Cor	ntinuity Data	Foreign Data	Inve

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		Attorney Doc	ket #	S	earch	
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Day: Friday Date: 3/26/2004 Time: 16:31:09

Application Number Information

Application Number: 10/016410

Assignments

Filing Date: 12/07/2001

Effective Date: 12/07/2001

Application Received: 12/17/2001

Patent Number: <u>6515368</u>

Issue Date: 02/04/2003

Date of Abandonment: 00/00/0000

Attorney Docket Number: P1382

Status: 150 /PATENTED CASE

Confirmation Number: 8698

Examiner Number: 77796 / SMOOT, STEPHEN

Group Art Unit: 2813

Class/Subclass: 257/762.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

<u>L&R Code</u>: Secrecy Code:1

Third Level Review: YES

Secrecy Order: NO

Status Date: 01/16/2003

Oral Hearing: NO

Title of Invention: SEMICONDUCTOR DEVICE WITH COPPER-FILLED VIA INCLUDES A

COPPER-ZINC ALLO FILM FOR REDUCED ELECTROMIGRATION OF COPPER

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employ	yee Name	Location	-	
10016410	<u>7580</u>	03/01/2004	No Charge to Location	No Charge to Name	RANDAL	L,HENRY	PK3/09/ 922		
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	PCT	[//	Search	or PG	PUBS #[Search		
	Attorney Docket # Search								
	Bar	Code #		Search					

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Day: Friday Date: 3/26/2004 Time: 16:31:49

Application Number Information

Application Number: 10/084563

Assignments

Filing Date: 02/26/2002

Effective Date: 02/26/2002

Application Received: 02/28/2002

Patent Number: 6717236

Issue Date: 04/06/2004

Date of Abandonment: 00/00/0000

Attorney Docket Number: **P1410**

Status: 150 /PATENTED CASE

Confirmation Number: 7966

Examiner Number: 76777 / LEE, HSIEN MING

Group Art Unit: 2823

Class/Subclass: 257/586.000

Lost Case: NO

Interference Number: Unmatched Petition: NO

<u>L&R Code:</u> Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

IFW IMAGE

Status Date: 03/18/2004

Oral Hearing: NO

Title of Invention: METHOD OF REDUCING ELECTROMIGRATION BY FORMING AN ELECTROPLATED COPPER-ZINC INTERCONNECT AND A SEMICONDUCTOR DEVICE

THEREBY FORMED

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
10084563IW	<u>7420</u>	03/08/2004	No Charge to Location	No Charge to Name	CALLISON,THOMAS	FDC/01/

Appln[Info	Contents	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Invent
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]	Bar Code#		Search		

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Day: Friday Date: 3/26/2004 Time: 16:32:20

Application Number Information

Application Number: 10/016645 Order This

File Assignments Filing Date: 12/07/2001

Group Art Unit: 2829

Effective Date: 12/07/2001

Class/Subclass: 438/687.000

Examiner Number: 77099 / PERT, EVAN

Application Received: 12/17/2001

Lost Case: NO

Patent Number: <u>6630741</u>

Interference Number:

Issue Date: 10/07/2003

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: P1381

Third Level Review: YES

Secrecy Order: NO Status Date: 09/18/2003

Status: 150 /PATENTED CASE

Oral Hearing: NO Confirmation Number: 7574

Title of Invention: METHOD OF REDUCING ELECTROMIGRATION BY ORDERING ZINC-DOPING IN AN ELECTROPLATED COPPER-ZINC INTERCONNECT AND A

SEMICONDUCTOR DEVICE THEREBY FORMED

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employ	ee Name	Location	
10016645	9200	11/18/2003	No Charge to Location	No Charge to Name	MASSILLON	N,NICHOLAS		
Appln Co								
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Day : Friday Date: 3/26/2004 Time: 14:28:36

Inventor Name Search Result

Your Search was:

Last Name = LOPATIN

Application#	Patent#	Status	Date Filed	Title	Inventor Name 51
60511993	Not Issued	020	10/15/2003	HETEROGENEOUS ACTIVATION LAYERS FORMED BY IONIC AND ELECTROLESS REACTIONS USED FOR IC INTERCONNECT CAPPING LAYERS	LOPATIN, SERGEY
60511980	Not Issued	020	10/15/2003	SILVER UNDER-LAYERS FOR ELECTROLESS COW ALLOYS	LOPATIN, SERGEY
60511236	Not Issued	020	10/15/2003	APPARATUS FOR ELECTROLESS DEPOSITION	LOPATIN, SERGEY
60503833	Not Issued	020	09/19/2003	APPARATUS AND METHOD OF DETECTING THE ELECTROLESS DEPOSITION ENDPOINT	LOPATIN, SERGEY
6022230	Not Issued	159	08/01/2000	STRUCTURE AND METHOD OF SEMICONDUCTOR TRENCH SEED LAYER CONTINUITY TESTING	LOPATIN, SERGEY D
60217961	Not Issued	159	07/13/2000	APPARATUS FOR ESTABLISHING AND/OR MONITORING THE FILLING LEVEL OF A FILLING MATERIAL IN A CONTAINER	LOPATIN, SERGEJ
60197546	Not Issued	159	04/17/2000	APPARATUS FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILLING LEVEL IN A CONTAINER	LOPATIN, SERGEJ
10726829	Not Issued	020	12/03/2003	POST CMP PRECURSOR TREATMENT	LOPATIN, SERGEY D.
10704162	Not Issued	020	11/07/2003	ELECTROMECHANICAL	LOPATIN, SERGE.

				DRIVE OR SENSOR ELEMENT FOR A MEASUREMENT INSTRUMENT, AND METHOD FOR THEIR PRODUCTION	
10703769	Not Issued	030	11/07/2003	METHOD AND TOOL OF CHEMICAL DOPING COW ALLOYS WITH RE FOR INCREASING BARRIER PROPERTIES OF ELECTROLESS CAPPING LAYERS FOR IC CU INTERCONNECTS	LOPATIN, SERGEY
10699903	Not Issued	020	11/03/2003	SIDEWALL FORMATION FOR HIGH DENSITY POLYMER MEMORY ELEMENT ARRAY	LOPATIN, SERGEY D.
10696318	Not Issued	030	10/29/2003	METHOD OF USING AN ADHESION PRECURSOR LAYER FOR CHEMICAL VAPOR DEPOSITION (CVD) COPPER DEPOSITION	LOPATIN, SERGEY D.
10687186	Not Issued	020	10/16/2003	SMFT FOR THE SELECTION OF SELEC	LOPATIN, SERGEY D.
10673947	Not Issued	020	09/29/2003	METHOD OF ELECTROCHEMICAL PLANARIZATION FOR CU DAMASCENE	LOPATIN, SERGEY
10665938	Not Issued	030	09/17/2003	SEMICONDUCTOR COMPONENT AND METHOD OF MANUFACTURE	LOPATIN, SERGEY
10626371	Not Issued	019	01/01/0001	SEMICONDUCTOR DEVICE HAVING COPPER LINES WITH REDUCED ELECTROMIGRATION USING AN ELECTROPLATED INTERIM COPPER-ZINC ALLOY THIN FILM ON A COPPER SURFACE	
10478296	Not Issued	019	01/01/0001	ELECTROMECHANICAL TRANSDUCER WITH AT LEAST ONE PIEZOELECTRIC ELEMENT	LOPATIN, SERGEJ

				7.00000	
10478295	Not Issued	019	01/01/0001	CIRCUIT BOARD WITH AT LEAST ONE ELECTRONIC COMPONENT	
09942878	6711942	150	08/31/2001	APPARATUS FOR DETERMINING AND/OR MONITORING THE VISCOSITY OF A MEDIUM IN A CONTAINER	LOPATIN, SERGEJ
09905427	Not Issued	161	07/13/2001	CONDUCTOR ELECTROPLATING IN INTEGRATED CIRCUIT INTERCONNECTS	LOPATIN, SERGEY D.
09905297	Not Issued	161	07/13/2001	CONDUCTOR CORE DEFECT REPAIR IN INTEGRATED CIRCUIT INTERCONNECTS	LOPATIN, SERGEY D.
09905296	6426297	150	07/13/2001	DIFFERENTIAL PRESSURE CHEMICAL-MECHANICAL POLISHING IN INTEGRATED CIRCUIT INTERCONNECTS	LOPATIN, SERGEY D.
09895038	6423433	150	06/29/2001	METHOD OF FORMING CU-CA-O THIN FILMS ON CU SURFACES IN A CHEMICAL SOLUTION AND SEMICONDUCTOR DEVICE THEREBY FORMED	LOPATIN, SERGEY
09888827	Not Issued	161	06/25/2001	METHOD OF ELECTROLESS AG LAYER FORMATION FOR CU INTERCONNECTS	LOPATIN, SERGEY
09880219	6534865	150	06/12/2001	METHOD OF ENHANCED FILL OF VIAS AND TRENCHES	LOPATIN, SERGEY D.
09877627	Not Issued	161	06/08/2001	METHOD FOR CONDUCTOR CORE PROCESSING FOR UNIFORM CMP	LOPATIN, SERGEY D.
09874513	6495443	150	06/05/2001	METHOD OF RE-WORKING COPPER DAMASCENE WAFERS	LOPATIN, SERGEY
09873667	6482656	150	06/04/2001	METHOD OF ELECTROCHEMICAL FORMATION OF HIGH TC SUPERCONDUCTING DAMASCENE	LOPATIN, SERGEY

				INTERCONNECT FOR INTEGRATED CIRCUIT	
09872785	Not Issued	161	06/01/2001	MODIFICATION OF COPPER ALLOY/LOW-K DIELECTRIC INTERFACE FOR INHIBITING COPPER DIFFUSION	LOPATIN, SERGEY D.
09872717	6426293	150	06/01/2001	MINIMIZING RESISTANCE AND ELECTROMIGRATION OF INTERCONNECT BY ADJUSTING ANNEAL TEMPERATURE AND AMOUNT OF SEED LAYER DOPANT	LOPATIN, SERGEY
09872328	6528884	150	06/01/2001	CONFORMAL ATOMIC LINER LAYER IN AN INTERGRATED CIRCUIT INTERCONNECT	LOPATIN, SERGEY D.
09845616	6447933	150	04/30/2001	FORMATION OF ALLOY MATERIAL USING ALTERNATING DEPOSITIONS OF ALLOY DOPING ELEMENT AND BULK MATERIAL	LOPATIN, SERGEY
09844845	6420189	150	04/27/2001	SUPERCONDUCTING DAMASCENE INTERCONNECT FOR INTEGRATED CIRCUIT	LOPATIN, SERGEY
09844727	6528412	150	04/30/2001	DEPOSITING AN ADHESION SKIN LAYER AND A CONFORMAL SEED LAYER TO FILL AN INTERCONNECT OPENING	LOPATIN, SERGEY
.09836054	6455415	150	04/16/2001	METHOD OF ENCAPSULATED COPPER (CU) INTERCONNECT FORMATION	LOPATIN, SERGEY D.
09805651	6403466	150	03/13/2001	POST-CMP-CU DEPOSITION AND CMP TO ELIMINATE SURFACE VOIDS	LOPATIN, SERGEY D.
09777571	6433379	150	02/06/2001	TANTALUM ANODIZATION FOR IN-LAID COPPER METALLIZATION CAPACITOR	LOPATIN, SERGEY
09634025	6344410	150	08/08/2000		LOPATIN, SERGEY D.

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09627352	6368954	150	07/28/2000	METHOD OF COPPER INTERCONNECT FORMATION USING ATOMIC LAYER COPPER DEPOSITION	LOPATIN, SERGEY D.
09621156	6387818	150	07/21/2000	METHOD OF POROUS DIELECTRIC FORMATION WITH ANODIC TEMPLATE	LOPATIN, SERGEY
09609013	6479902	150	06/29/2000	SEMICONDUCTOR CATALYTIC LAYER AND ATOMIC LAYER DEPOSITION THEREOF	LOPATIN, SERGEY D.
09592164	6291082	150	06/13/2000	METHOD OF ELECTROLESS AG LAYER FORMATION FOR CU INTERCONNECTS	LOPATIN, SERGEY
09577913	6437989	150	05/24/2000	CIRCUIT BOARD WITH AN ELECTRONIC COMPONENT AND A METHOD FOR PRODUCING A CONNECTION BETWEEN THE CIRCUIT BOARD AND THE COMPONENT	
09577100	6389891	150	05/24/2000	METHOD AND APPARATUS FOR ESTABLISHING AND/OR MONITORING THE FILLING LEVEL OF A MEDIUM IN A CONTAINER	LOPATIN, SERGEJ
09576402	Not Issued	161	05/22/2000	METHOD FOR LEVEL MEASUREMENT ON CONTAINERS, AND AN APPARATUS FOR CARRYING OUT THE METHOD	LOPATIN, SERGEJ
09570602	Not Issued	161	05/12/2000	LASER ANNEAL CU DAMASCENE INTERCONNECT FORMED BEFORE BARRIER POLISH FOR IMPROVING RELIABILITY	LOPATIN, SERGEY
09561622	6228759	150	05/02/2000	METHOD OF FORMING AN ALLOY PRECIPITATE TO SURROUND INTERCONNECT TO MINIMIZE	LOPATIN, SERGEY

22.				ELECTROMIGRATION	
09558831	6555171	150	04/26/2000	CU/SN/PD ACTIVATION OF A BARRIER LAYER FOR ELECTROLESS CU DEPOSITION	LOPATIN, SERGEY D.
09522148	6281587	150	03/09/2000	MULTILAYERED COAXIAL INTERCONNECT STRUCTURE	LOPATIN, SERGEY
<u>09484412</u>	6455425	150	01/18/2000	SELECTIVE DEPOSITION PROCESS FOR PASSIVATING TOP INTERFACE OF DAMASCENE-TYPE CU INTERCONNECT LINES	LOPATIN, SERGEY
	6350687	150	03/18/1999	METHOD OF FABRICATING IMPROVED COPPER METALLIZATION INCLUDING FORMING AND REMOVING PASSIVATION LAYER BEFORE FORMING CAPPING FILM	LOPATIN, SERGEY

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Inventor Name Search Result

Your Search was:

Last Name = LOPATIN

Application#	Patent#	Status	Date Filed	Title	Inventor Name 51
60399874	Not Issued	159	07/31/2002	LAMINATED CONDUCTIVE LINES AND METHODS OF FORMING THE SAME	
60264006	Not Issued	159	01/26/2001	APPARATUS FOR DETERMINING AND/OR MONITORING THE VISCOSITY OF A MEDIUM IN A CONTAINER	LOPATIN, SERGEJ
60223264	Not Issued	159	08/05/2000	DUAL DIFFUSION BARRIERS FOR INTEGRATED CIRCUIT INTERCONNECTS	LOPATIN, SERGEY D.
60222230	Not Issued	159	08/01/2000	STRUCTURE AND METHOD OF SEMICONDUCTOR TRENCH SEED LAYER CONTINUITY TESTING	LOPATIN, SERGEY D
60222229	Not Issued	159	08/01/2000	SILICON CONTAINING DIFFUSION BARRIER INTEGRATED CIRCUIT INTERCONNECTS	LOPATIN, SERGEY D.
60222228	Not Issued	159	08/01/2000	STRUCTURE AND METHOD OF SEMICONDUCTOR VIA SEED LAYER CONTINUITY TESTING	LOPATIN, SERGEY D.
	Not Issued	159	08/01/2000	LOCAL INTERCONNECTS IN INTEGRATED CIRCUITS	LOPATIN, SERGEY D.
	Not Issued	030	07/31/2002	IMPLANTED BARRIER	LOPATIN, SERGEY D.
<u>10154871</u>	6621165	150	05/23/2002	SEMICONDUCTOR DEVICE	LOPATIN,

50.0 K.D., 4 K.0.000000000000000000000000000000000					FABRICATED BY REDUCING CARBON,	SERGEY D.
					SULPHUR, AND OXYGEN IMPURITIES IN A CALCIUM-DOPED COPPER SURFACE	
	10145944	Not Issued	041	05/15/2002	METHOD OF FORMING AN ADHESION LAYER WITH AN ELEMENT REACTIVE WITH A BARRIER LAYER	LOPATIN, SERGEY D.
	10134883	6528409	150	04/29/2002	INTERCONNECT STRUCTURE FORMED IN POROUS DIELECTRIC MATERIAL WITH MINIMIZED DEGRADATION AND ELECTROMIGRATION	LOPATIN, SERGEY
en de la companya de La companya de la companya	10118511	6472310	150	04/08/2002	TIN PALLADIUM ACTIVATION WITH MAXIMIZED NUCLEI DENSITY AND UNIFORMITY ON BARRIER MATERIAL IN INTERCONNECT STRUCTURE	LOPATIN, SERGEY
	10107778	6589408	150	03/27/2002	NON-PLANAR COPPER ALLOY TARGET FOR PLASMA VAPOR DEPOSITION SYSTEMS	LOPATIN, SERGEY D.
Auditoria de la companya de la comp Auditoria de la companya de la comp	10084563	6717236	150	02/26/2002	METHOD OF REDUCING ELECTROMIGRATION BY FORMING AN ELECTROPLATED COPPER-ZINC INTERCONNECT AND A SEMICONDUCTOR DEVICE THEREBY FORMED	LOPATIN, SERGEY
An ordered of the temporal ordered and the color of the color of the temporal ordered and the te	10083809	6660633) 150	02/26/2002	METHOD OF REDUCING ELECTOMIGRATION IN A COPPER LINE BY ELECTROPLATING AN INTERIM COPPER-ZINC ALLOY THIN FILM ON A COPPER SURFACE AND A SEMICONDUCTOR DEVICE THEREBY FORMED	LOPATIN, SERGEY
	10081074	Not Issued	071	02/21/2002	CHEMICAL SOLUTION FOR ELECTROPLATING A COPPER-ZINC ALLOY THIN	SERGEY

Action of				FILM	
10052831	6538327	150	01/15/2002	METHOD OF COPPER INTERCONNECT FORMATION USING ATOMIC LAYER COPPER DEPOSITION AND A DEVICE THEREBY FORMED	LOPATIN, SERGEY D.
10052133	6498093	150	01/17/2002	FORMATION WITHOUT VACUUM BREAK OF SACRIFICIAL LAYER THAT DISSOLVES IN ACIDIC ACTIVATION SOLUTION WITHIN INTERCONNECT	LOPATIN, SERGEY
10041926	6486560			SEMICONDUCTOR DEVICE FABRICATED BY A METHOD OF REDUCING ELRCTROMIGRATION IN COPPER LINES BY FORMING AN INTERIM LAYER OF CALCIUM-DOPED COPPER SEED LAYER IN A CHEMICAL SOLUTION	LOPATIN, SERGEY
10017886	Not Issued	161	12/13/2001	PROCESS FOR FORMATION OF A WIRING NETWORK USING A POROUS INTERLEVEL DIELECTRIC AND RELATED STRUCTURES	LOPATIN, SERGEY
10016643	6630741	150	12/07/2001		LOPATIN, SERGEY
10016410	6515368	350	12/07/2001	SEMICONDUCTOR DEVICE WITH COPPER-FILLED VIA INCLUDES A COPPER-ZINC ALLO FILM FOR REDUCED ELECTROMIGRATION OF COPPER	SERGEY
09999703	6563222	150	10/24/2001	METHOD AND APPARATUS FOR REDUCING ELECTROMIGRATION IN SEMICONDUCTOR	LOPATIN, SERGEY

				INTERCONNECT LINES	
09994400	6703308	150	11/26/2001	METHOD OF INSERTING ALLOY ELEMENTS TO REDUCE COPPER DIFFUSION AND BULK DIFFUSION	LOPATIN, SERGEY D.
09994397	Not Issued	041	11/26/2001	METHOD OF IMPLANTING COPPER BARRIER MATERIAL TO IMPROVE ELECTRICAL PERFORMANCE	LOPATIN, SERGEY D.
09994395	Not Issued	080	11/26/2001	METHOD OF USING TERNARY COPPER ALLOY TO OBTAIN A LOW RESISTANCE AND LARGE GRAIN SIZE INTERCONNECT	LOPATIN, SERGEY D.
09994358	6703307	150	11/26/2001	METHOD OF IMPLANTATION AFTER COPPER SEED DEPOSITION	LOPATIN, SERGEY D.
09989972	6583051	150	11/20/2001	METHOD OF MANUFACTURING AN AMORPHIZED BARRIER LAYER FOR INTEGRATED CIRCUIT INTERCONNECTS	LOPATIN, SERGEY D _.
· 09975032	6489683	150	10/10/2001	B. Sandari, S. Sandari, S. Sandari, S. Sandari, A. Sandari, A. Sandari, A. Sandari, A. Sandari, S.	LOPATIN, SERGEY D.
09784022	6346472	150	02/16/2001	MANUFACTURING METHOD FOR SEMICONDUCTOR METALIZATION BARRIER	LOPATIN, SERGEY D.
09760422	6555909	150	01/11/2001	SEEDLESS BARRIER LAYERS IN INTEGRATED CIRCUITS AND A METHOD OF MANUFACTURE THEREFOR	LOPATIN, SERGEY D.
09758995	Not Issued	161	01/11/2001	BARRIER AND SEED LAYERS IN INTEGRATED CIRCUITS AND A METHOD OF MANUFACTURE THEREFOR	LOPATIN, SERGEY D.
09733487	6710517	150	12/08/2000	ELECTROMECHANICAL DRIVE OR SENSOR ELEMENT FOR A	LOPATIN, SERGEJ

	9			MEASUREMENT INSTRUMENT, AND METHOD FOR THEIR PRODUCTION	
09730556	6420816	150 :	1	METHOD FOR EXCITING LAMB WAVES IN A PLATE, IN PARTICULAR A CONTAINER WALL, AND AN APPARATUS FOR CARRYING OUT THE METHOD AND FOR RECEIVING THE EXCITED LAMB WAVES	LOPATIN, SERGEJ
09728685	6358848	150		METHOD OF REDUCING ELECTROMIGRATION IN COPPER LINES BY FORMING AN INTERIM LAYER OF CALCIUM-DOPED COPPER SEED LAYER IN A CHEMICAL SOLUTION AND SEMICONDUCTOR DEVICE THEREBY FORMED	LOPATIN, SERGEY
09728684	6509262	150	11/30/2000	H i	LOPATIN, SERGEY
09728315	6291348	150	11/30/2000	Haracon and the control of the contr	LOPATIN, SERGEY
09728314	6469387	150	11/30/2000	SEMICONDUCTOR DEVICE FORMED BY CALCIUM DOPING A COPPER SURFACE USING A CHEMICAL SOLUTION	LOPATIN, SERGEY
09728313	6475272	150	11/30/2000	CHEMICAL SOLUTION FOR CU-CA-O THIN FILM FORMATIONS ON CU SURFACES	LOPATIN, SERGEY

09728312	6444580	150	11/30/2000	METHOD OF REDUCING CARBON, SULPHUR, AND OXYGEN IMPURITIES IN A CALCIUM-DOPED COPPER SURFACE AND SEMICONDUCTOR DEVICE THEREBY FORMED	LOPATIN, SERGEY
09723812	6368961	150	11/28/2000	GRADED COMPOUND SEED LAYERS FOR SEMICONDUCTORS	LOPATIN, SERGEY D.
<u>09717708</u>	Not Issued	083	11/20/2000	METHOD FOR FORMING STABLE INTERLAYER LOW-K DIELECTRIC AND SEMICONDUCTOR DEVICE MADE THEREBY	LOPATIN, SERGEY
09715702	6348732	150	11/18/2000	AMORPHIZED BARRIER LAYER FOR INTEGRATED CIRCUIT INTERCONNECTS	LOPATIN, SERGEY D.
09715622	Not Issued	161	11/18/2000	INTEGRATED CIRCUIT AND METHOD FOR IMPURITY CONTROL IN PLATING OF VIAS AND CHANNELS	LOPATIN, SERĢEY D.
09715616	6504251	150	11/18/2000	HEAT/COLD AMORPHIZED BARRIER LAYER FOR INTEGRATED CIRCUIT INTERCONNECTS	LOPATIN, SERGEY D.
09678946	6501177	150	10/03/2000	ATOMIC LAYER BARRIER LAYER FOR INTEGRATED CIRCUIT INTERCONNECTS	LOPATIN, SERGEY D.
09671944	6518648	150	09/27/2000	SUPERCONDUCTOR BARRIER LAYER FOR INTEGRATED CIRCUIT INTERCONNECTS	LOPATIN, SERGEY D.
09655108	6297146	150	09/05/2000	LOW RESISTIVITY SEMICONDUCTOR BARRIER LAYER MANUFACTURING METHOD	LOPATIN, SERGEY D.
09651760	6440830	150	08/30/2000	METHOD OF COPPER-POLYSILICON GATE FORMATION	LOPATIN, SERGEY
09651513	6500743 6397683	150	08/30/2000	METHOD OF COPPER-POLYSILICON T-GATE FORMATION	LOPATIN, SERGEY

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Application#	Patent#	Status	Date Filed	Title	Inventor Name 51
60051514	Not Issued	159	07/02/1997	APPARATUS FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILLING LEVEL IN A CONTAINER	LOPATIN, SERGEJ
10614484	Not Issued	041	07/07/2003	SILICON CONTAINING MATERIAL FOR PATTERNING POLYMERIC MEMORY ELEMENT	LOPATIN, SERGEY D.
<u>10614397</u>	Not Issued	041	07/07/2003	POLYMER MEMORY DEVICE FORMED IN VIA OPENING	LOPATIN, SERGEY D.
10472197	Not Issued	030	09/29/2003	DEVICE FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILL LEVEL IN A CONTAINER	LOPATIN, SERGEJ
10416516	Not Issued	030	12/01/2003	METHOD AND DEVICE FOR DETERMINING AND/OR MONITORING THE LEVEL OF A MEDIUM IN A CONTAINER, OR FOR DETERMINING THE DENSITY OF A MEDIUM IN A CONTAINER	LOPATIN, SERGEJ
10331682	Not Issued	095	12/30/2002	LAMINATED CONDUCTIVE LINES AND METHODS OF FORMING THE SAME	LOPATIN, SERGEY D.
10328347	Not Issued	071	12/24/2002	The state of the s	LOPATIN, SERGEY D.
10327428	Not Issued	071	12/20/2002	MANUFACTURING A CONFORMAL ATOMIC LINER LAYER IN AN INTEGRATED CIRCUIT	LOPATIN, SERGEY D.

				INTERCONNECT	
10314837	6686263	150	12/09/2002	SELECTIVE FORMATION OF TOP MEMORY ELECTRODE BY ELECTROLESS FORMATION OF CONDUCTIVE MATERIALS	LOPATIN, SERGEY D.
10314060	Not Issued	094	12/05/2002	METHOD OF FORMING COPPER SULFIDE FOR MEMORY CELL	LOPATIN, SERGEY D.
10314054	Not Issued	071	12/05/2002	IMPLANTATION FOR THE FORMATION OF CUX LAYER IN AN ORGANIC MEMORY DEVICE	LOPATIN, SERGEY D.
10313494	Not Issued	071	12/05/2002	METHODS OF FORMING PASSIVE LAYERS IN ORGANIC MEMORY CELLS	LOPATIN, SERGEY D.
10288862	6624075	150		METHOD OF REDUCING ELECTROMIGRATION IN A COPPER LINE BY ZINC-DOPING OF A COPPER SURFACE FROM AN ELECTROPLATED COPPER-ZINC ALLOY THIN FILM AND A SEMICONDUCTOR DEVICE THEREBY FORMED	LOPATIN, SERGEY
10284946	Not Issued	071	10/31/2002	H .	LOPATỊN, SERGEY D.
10284769	Not Issued	041	10/31/2002	SYSTEM AND METHOD OF FORMING A PASSIVE LAYER BY A CMP PROCESS	LOPATIN, SERGEY D.
10280634	6646353	150	10/24/2002	SEMICONDUCTOR DEVICE HAVING REDUCED ELECTROMIGRATION IN COPPER LINES WITH CALCIUM DOPING COPPER SURFACES FORMED BY USING A CHEMICAL SOLUTION	LOPATIN, SERGEY
10275274	Not Issued	030	04/29/2003	APPARATUS FOR DETERMINING AND/OR MONITORING THE FILLING	LOPATIN, SERGEI

				LEVEL OF A FILLING MATERIAL IN A CONTAINER	
10228010	6559546	150	08/26/2002	TIN PALLADIUM ACTIVATION WITH MAXIMIZED NUCLEI DENSITY AND UNIFORMITY ON BARRIER MATERIAL IN INTERCONNECT STRUCTURE	LOPATIN, SERGEY
10220274	Not Issued	041	12/10/2002	DEVICE FOR DETERMINING AND/OR MONITORING A PREDETERMINED LEVEL IN A CONTAINER	LOPATIN, SERGEJ
10218532	6624074	150	08/13/2002	METHOD OF FABRICATING A SEMICONDUCTOR DEVICE BY CALCIUM DOPING A COPPER SURFACE USING A CHEMICAL SOLUTION	LOPATIN, SERGEY
10209060	Not Issued	030	07/31/2002	IMPLANTED BARRIER LAYER TO IMPROVE LINE RELIABILITY AND METHOD OF FORMING SAME	LOPATIN, SERGEY D.
<u>10174486</u>	6644116	150	06/19/2002	DEVICE FOR DETERMINING AND/OR MONITORING THE LEVEL OF A MEDIUM IN A CONTAINER	LOPATIN, SERGEJ
10166548	Not Issued	061	06/10/2002	LAYERED COPPER AND ALLOYING METAL DEPOSITION FOR THE PRODUCTION OF COPPER ALLOYS	LOPATIN, SERGEY D.
<u>10145928</u>	Not Issued	092	05/15/2002	METHOD OF FORMING AN ELECTROLESS NUCLEATION LAYER ON A VIA BOTTOM	LOPATIN, SERGEY D.
10125986	Not Issued	041	04/19/2002	FILLING LEVEL MEASURING DEVICE OPERATING WITH MICROWAVES; HAVING AN INSERT COMPOSED OF A DIELECTRIC; AND PROCESS FOR PRODUCING THE DIELECTRIC	LOPATIN, SERGEJ

THE PROPERTY OF THE PROPERTY O	10082433	Not Issued	030	02/22/2002	METHOD OF CONTROLLING ZINC-DOPING IN A COPPER-ZINC ALLOY THIN FILM ELECTROPLATED ON A COPPER SURFACE AND A SEMICONDUCTOR DEVICE THEREBY FORMED	9
A transportation of the second section of the second section of the second second section of the second section of the second sec	10082432	6528424	150	02/22/2002	METHOD OF ELECTROPLATING A COPPER-ZINC ALLOY THIN FILM ON A COPPER SURFACE USING A CHEMICAL SOLUTION	LOPATIN, SERGEY
	09792083	6465867	150	02/21/2001	H	LOPATIN, SERGEY D.
NO. OF CO. OF CO	09784842	6368965	150	02/15/2001		LOPATIN, SERGEY D.
	09477821	6689689	150	01/05/2000		LOPATIN , SERGEY
	09333833	Not Issued	161	06/15/1999		LOPATIN, SERGEY D.
	09296054	6259160	150	04/21/1999	1 1	LOPATIN , SERGEY D.
	09293559	6103624	150		METHOD OF IMPROVING CU DAMASCENE INTERCONNECT RELIABILITY BY LASER ANNEAL BEFORE BARRIER POLISH	LOPATIN , SERGEY
deal of last	09276839	6340633	150	03/26/1999	METHOD FOR RAMPED	LOPATIN,

				CURRENT DENSITY PLATING OF SEMICONDUCTOR VIAS AND TRENCHES	SERGEY D.
09253479	6083842	150	02/19/1999	FABRICATION OF A VIA PLUG HAVING HIGH ASPECT RATIO WITH DIFFUSION BARRIER LAYER EFFECTIVELY SURROUNDING THE VIA PLUG	LOPATIN, SERGEY
09237584	6096648	150	01/26/1999	COPPER/LOW DIELECTRIC INTERCONNECT FORMATION WITH REDUCED ELECTROMIGRATION	LOPATIN , SERGEY
09225649	6174799	150	01/05/1999	GRADED COMPOUND SEED LAYERS FOR SEMICONDUCTORS	LOPATIN, SERGEY D.
09225539	6103086	150	01/05/1999	METHOD OF FORMING RELIABLE COPPER INTERCONNECTS WITH IMPROVED HOLE FILLING	LOPATIN , SERGEY
09207680	6242349	150	12/09/1998	METHOD OF FORMING COPPER/COPPER ALLOY INTERCONNECTION WITH REDUCED ELECTROMIGRATION	LOPATIN, SERGEY
<u>09206799</u>	6015747	250	12/07/1998	METHOD OF METAL/POLYSILICON GATE FORMATION IN A FIELD EFFECT TRANSISTOR	LOPATIN, SERGEY
09200014	6417748	150	11/25/1998	FILLING LEVEL MEASURING DEVICE OPERATING WITH MICROWAVES, HAVING AN INSERT COMPOSED OF A DIELECTRIC, AND PROCESS FOR PRODUCING THE DIELECTRIC	LOPATIN, SERGEJ
<u>09196482</u>	6446076	150	11/19/1998	VOICE INTERACTIVE WEB-BASED AGENT SYSTEM RESPONSIVE TO A USER LOCATION FOR PRIORITIZING AND FORMATTING INFORMATION	LOPATIN , SERGEI

09166617	6144096	150	10/05/1998	LOW RESISTIVITY	LOPATIN,
60 ft - 10 - 100 ft				SEMICONDUCTOR BARRIER LAYERS AND MANUFACTURING METHOD THEREFOR	SERGEY D.
09059160	5969621	150	04/13/1998	APPARATUS FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILLING LEVEL IN A CONTAINER	LOPATIN , SERGEJ
09055179	6148665	150	04/03/1998	ARRANGEMENT FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILLING LEVEL IN A CONTAINER USING A MECHANICAL OSCILLATORY STRUCTURE	LOPATIN, SERGEJ
08906130	5757104	150	08/05/1997	METHOD OF OPERATING AN ULTRASONIC PIEZOELECTRIC TRANSDUCER AND CIRCUIT ARRANGEMENT FOR PERFORMING THE METHOD	LOPATIN , SERGEY
08733099	5836192	150	10/16/1996	DEVICE FOR MONITORING A PREDETERMINED LEVEL OF A LIQUID IN A CONTAINER	
<u>08732196</u>	<u>5755136</u>	150	10/16/1996	DEVICE FOR MONITORING A PREDETERMINED LEVEL OF A LIQUID IN A CONTAINER	
08730944	5730025	150	10/16/1996	DEVICE FOR MONITORING A PREDETERMINED LEVEL OF A LIQUID IN A CONTAINER	
<u>08641560</u>	5815079	150	05/01/1996	DEVICE FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILLING LEVEL IN A CONTAINER	LOPATIN , SERGEJ
08534504	Not Issued	166		METHOD OF OPERATING AN ULTRASONIC PIEZOELECTRIC TRANSDUCER AND CIRCUIT ARRANGEMENT FOR PERFORMING THE METHOD	LOPATIN, SERGEY

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60147671	Not Issued	159	08/06/1999	METHOD FOR LEVEL MEASUREMENT ON CONTAINERS, AND AN APPARATUS FOR CARRYING OUR THE METHOD	LOPATIN', SERGEJ
60147369	Not Issued	159	08/05/1999	CIRCUIT BOARD WITH AN ELECTRONIC COMPONENT AND A METHOD FOR PRODCING CONNECTION BETWEEN THE CIRCUIT BOARD AND THE COMPONENT	LOPATIN , SERGEJ
60107158	Not Issued	159	11/05/1998	APPARATUS FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILLING LEVEL IN A CONTAINER	LOPATIN, SERGEJ
60106835	Not Issued	159	11/03/1998	CLAMP-ON ULTRASONIC FLOWMETER	LOPATIN , SERGEJ
60106792	Not Issued	159	11/03/1998	ULTRASONIĆ TRANSDUCER ASSEMBLY	LOPATIN, SERGEJ
60052744	Not Issued	159	07/02/1997	APPARATUS FOR ESTABLISHING AND/OR MONITORIN A PREDETERMINED FILLING LEVEL IN A CONTAINER	LOPATIN , SERGEJ
60051606	Not Issued	159	07/02/1997	ARRANGEMENT FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILLING LEVEL IN A CONTAINER	LOPATIN, SERGEJ
60051514	Not Issued	159	07/02/1997	APPARATUS FOR ESTABLISHING AND/OR MONITORING A	LOPATIN , SERGEJ

· WANTANIA ANTANIA MARKAMANA MARKAMANA MARKAMANA MARKAMANA MARKAMANA MARKAMANA MARKAMANA MARKAMANA MARKAMANA M				PREDETERMINED FILLING LEVEL IN A CONTAINER	
<u>09431516</u>	6297157	150	11/01/1999	TIME RAMPED METHOD FOR PLATING OF HIGH ASPECT RATIO SEMICONDUCTOR VIAS AND CHANNELS	LOPATIN, SERGEY D.
09430766	6319616	150	10/29/1999	SCALED INTERCONNECT ANODIZATION FOR HIGH FREQUENCY APPLICATIONS	LOPATIN , SERGEY
09388299	6236322	150	09/01/1999	APPARATUS FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILLING LEVEL IN A CONTAINER	LOPATIN, SERGEJ
09371324	6352000	150	08/10/1999	VORTEX FLOW SENSOR	LOPATIN, SERGEJ
09294454	6346470	150	04/19/1999	METHOD FOR REDUCING ELECTROMIGRATION IN SEMICONDUCTOR INTERCONNECT LINES	LOPATIN, SERGEY
<u>09282079</u>	6144099	150	03/30/1999	SEMICONDUCTOR METALIZATION BARRIER AND MANUFACTURING METHOD THEREFOR	LOPATIN , SERGEY D.
09276840	Not Issued	161	03/26/1999	METHOD FOR LOW STRESS PLATING OF SEMICONDUCTOR VIAS AND TRENCHES	LOPATIN, SERGEY D.
09253480	6245670	150	02/19/1999		LOPATIN , SERGEY
09252165	6320263	150		SEMICONDUCTOR METALIZATION BARRIER AND MANUFACTURING METHOD THEREFOR	LOPATIN, SERGEY D
09190768	6127282	150	11/12/1998		LOPATIN, SERGEY
<u>09156726</u>	5966983	150	Tradesia in carried or at the carried or	and the control of th	LOPATIN, SERGEJ

				PREDETERMINED LEVEL IN A VESSEL	
09149208	6033982	150	09/08/1998	SCALED INTERCONNECT ANODIZATION FOR HIGH FREQUENCY APPLICATIONS	LOPATIN , SERGEY
09131919	6060383	150	08/10/1998		LOPATIN, SERGEY
09059139	<u>5844491</u>	150	04/13/1998	APPARATUS FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILLING LEVEL IN A CONTAINER	LOPATIN , SERGEJ
09056204	6138507	150	04/06/1998	APPARATUS FOR ESTABLISHING AND/OR MONITORING A PREDETERMINED FILLING LEVEL IN A CONTAINER THROUGH CONTROLLED TRANSDUCER PHASE AND IMPEDANCE	LOPATIN, SERGEJ

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